## Commonwealth of Massachusetts



Executive Office of Environmental Affairs ■ MEPA Office

## **Environmental Notification Form**

For Office Use Only
Executive Office of Environmental Affairs

EOEA No.: 12724R MEPA Analystrick Zavolas

Phone: 617-626-1030

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Hannegan Brook W	'ell				
Street: Green Pond Road		-			
Municipality: Montague, MA	Watershed: Connecticut				
Universal Tranverse Mercator Coordinates:		Latitude: 42° 33' 40" N			
18 07 04 435 E 47 14 860 N		Longitude: 71° 30' 34" W			
Estimated commencement date: 2003		Estimated completion date: 2004			
Approximate cost: \$750,000		Status of project design: 10%complete			
Proponent: Turners Falls Fire Dist	rict			<del></del>	
Street: 226 Millers Falls Road			·		
Municipality: Turners Falls		State: MA	Zip Code:	01376	
Name of Contact Person From Who	m Copies	of this ENF M			
Nicole L. Sanford, Environmental	Analyst		,		
Firm/Agency: Dufresne-Henry	-	Street: 136 West Street, Suite 203			
Municipality: Northampton		State: MA	Zip Code:		
Phone: (413)584-4776	Fax: <b>(4</b> '	13)584-3157	E-mail: nsanford@du	fresne-henry.com	
Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?  Yes X No  Has this project been filed with MEPA before?  Yes (EOEA No) X No  Has any project on this site been filed with MEPA before?  Yes (EOEA No) X No					
Is this an Expanded ENF (see 301 CMR 11.0 a Single EIR? (see 301 CMR 11.06(8)) a Special Review Procedure? (see 301 CM a Waiver of mandatory EIR? (see 301 CM a Phase I Waiver? (see 301 CMR 11.11)	esting:		X No X No X No X No		
Identify any financial assistance or land the agency name and the amount of fur this project has been identified. The	nding or la	nd area (in acre	s): No financi	al assistance for	
Are you requesting coordinated review values (Specify			te, regional, or l <b>X</b> No	local agency?	
List Local or Federal Permits and Appro	vale: Mo	ntaqua Plannin	a/Zonina Povis	Nar.	

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):						
☐ Land [	Rare Species \( \square\)		Wetlands, Waterways, & Tidelands			
X Water	☐ Wastewater ☐		Transportation			
☐ Energy			•	azardous Waste		
☐ ACEC [	Regulations	s 🗌		Archaeological		
pro-			Resources			
Summary of Project Size	Existing	Change	Total	State Permits &		
& Environmental Impacts		L		Approvals		
L	AND			Order of Conditions		
Total site acreage	100 +/-			Superseding Order of Conditions		
New acres of land altered		1+/-		Chapter 91 License		
Acres of impervious area	0	0.1	0.1	401 Water Quality Certification		
Square feet of new bordering vegetated wetlands alteration		0		MHD or MDC Access Permit		
Square feet of new other wetland alteration		0		X Water Management Act Permit		
Acres of new non-water dependent use of tidelands or waterways		0		X New Source Approval DEP or MWRA Sewer Connection/ Extension Permit		
STRU	JCTURES			Other Permits		
Gross square footage	0	2,250	2,250	(including Legislative Approvals) — Specify:		
Number of housing units	0	0	0	Approvais) — Opecity.		
Maximum height (in feet)	0	24	24			
TRANS	PORTATION	1				
Vehicle trips per day	0	1	1			
Parking spaces	0	2	2	-		
WATER/V	VASTEWAT	ΕR				
Gallons/day (GPD) of water use	0	0	0			
GPD water withdrawal	0	1,440,000	1,440,000			
GPD wastewater generation/ treatment	0	0	0			
Length of water/sewer mains (in miles)	0	0.5	0.5			
CONSERVATION LAND: Will the prinatural resources to any purpose not  Yes (Specify Will it involve the release of any consistriction, or watershed preservation Yes (Specify	in accordance servation restric	with Article 97 ) tion, preservat	? <b>X</b> No			

Sites of Rare Species, or Exemplary Natural Co	Estimated Habitat of Rare Species, Vernal Pools, Priority
Yes X No	minumies :
HISTORICAL /ARCHAEOLOGICAL RESOURCE	EES: Does the project site include any structure, site or district
listed in the State Register of Historic Place or the Commonwealth?	ne inventory of Historic and Archaeological Assets of the
☐Yes (Specify	) X No
If yes, does the project involve any demolition or archaeological resources?	destruction of any listed or inventoried historic or
☐Yes (Specify	) 🔲No
AREAS OF CRITICAL ENVIRONMENTAL COM	NCERN: Is the project in or adjacent to an Area of Critical
Environmental Concern?	
Yes (Specify	) X No
PROJECT DESCRIPTION: The project	description should include (a) a description of the
project site, (b) a description of both on-site	e and off-site alternatives and the impacts associated ite and off-site mitigation measures for each alternative

The Turner's Falls Fire District (TFFD) currently obtains water from three wells at one site. Their only emergency supply is from Lake Pleasant, an untreated surface water supply. In order to meet future water demand and to add operational flexibility and a safe backup supply, the TFFD is pursuing the development a new well site near Lake Pleasant and Hannegan Brook (Figure 1).

(You may attach one additional page, if necessary.)

The Hannegan Brook site was identified for potential as a municipal water supply in 1999. Two test wells were driven in the area and then an 8-inch test well was installed after a site survey to assure the ownership of the Zone I area. The 8-inch test well is 253 feet deep and screened in fine to medium sand below a possible confining layer. All of the work being proposed is located within an upland area. Development of the well site will include improving the access way from Green Pond Road that is now a dirt path/road. Future construction will include a small pumping station building of approximately 2,250 SF. At this time the building and parking have not yet been designed. Overall, the project proposes minimal disturbances to soil and vegetation. Land altered during construction beyond the building and access road will be loamed, seeded and allowed to re-vegetate.

Regarding the well, a pump test was completed in July of 2004 by Dufresne-Henry. The proposed well is 250 feet deep with a static depth to water of about 63 feet. A 5 day pumping test was conducted at a rate of 425 GPM in May 2004. Potential impact to Hannegan Brook and Lake Pleasant was evaluated using three piezometers. The test found that there was no apparent effect on either the groundwater or surface water levels. Additional support for a lack of influence to the nearby surface water bodies comes from a comparison between the groundwater levels in the shallow and deep observation well pairs. These observation well pairs were constructed with one well screened at the same depth as the pumping well and another screened near the water table surface. The groundwater level in the deep screened well responded as expected, while the groundwater level in the shallow screened well showed no response to pumping.

The safe yield of the site as calculated by the method described in the DEP Guidelines and Policies for Public Water Systems is 2,446 GPM or 3.5 MGD. Since the test was conducted at 425 GPM, the approvable yield must be limited to twice that amount, or 850 GPM. In order to achieve an approvable yield that utilizes the potential of the aquifer yet stays under the MEPA threshold of 1.5 mgd, the performance test on the final production well will be extended to 5 days to satisfy the conditions of the Guidelines for yield approval. The pumping rate will be 1,000 GPM to give an approvable yield of 1.44 mgd. The final design pumping rate will be 1,500 GPM which will allow up to 15 ½ hours of operation per day. Laboratory testing indicates the well yields water of good drinking water quality (Final Report on Prolonged Pumping Test for Hannegan Brook Well prepared by Dufresne-Henry in July of 2004).

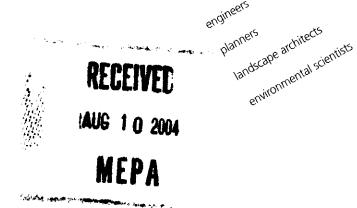


August 4, 2004

Secretary of Environmental Affairs
Executive Office of Environmental Affairs
ATTN: MEPA Office
251 Causeway Street, Suite 900
Boston, MA 02114

Re: Hannegan Brook Well ENF Montague, Massachusetts DH # 9290021

Dear Sir or Madam:



An Environmental Notification Form (ENF) was submitted to your office for the Hannegan Brook Well in Montague, MA in February of 2002. After discussing this project with MEPA and other regulatory agencies at a site visit on March 20, 2002, it was determined that the results of a pump test were needed in order for MEPA to review the project. On March 26, 2002 the ENF was withdrawn without prejudice. Enclosed you will find a resubmission of this ENF with the requested information from a pump test that was completed at the site in July of 2004.

Per a conversation with Barbara Kehoe, Program Coordinator with MEPA, I understand that the agency correspondence from 2002 is sufficient for resubmission of the ENF. However, please note that since 2002 the Natural Heritage and Endangered Species Maps have been updated. Two years ago the project site was not located within Priority Habitat; however the 2003 map indicates that the project site is now within this area. Copies of the ENF have been mailed to the entire distribution list.

Thank you for your time and consideration. Please call our office with any questions.

Sincerely,

DUFRESNE-HENRY, INC.

Nicole Sanford

**Environmental Analyst** 

Enclosures